



CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

SYNTHETIC FIBRES AND PLASTICS

Think And Discuss

1. What made the human beings to search for the alternative for natural fibres?



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2. Which fibres source material is not exhaustible? Why?



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3. How synthetic fibres evolved to the present position?



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4. What will happen, if we use cotton ropes in preparing parachutes?



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5. Traditionally fishermen used cotton nets. Now they are using nylon nets. What is the advantage of using nylon nets?



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6. Nylon sarees are much better than cotton sarees. Why?



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7. What characteristics make rayon better than natural silk?



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8. If you want to purchase a door mat made of synthetic fibre, which synthetic fibre door mat will you select? Why?



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9. If sanitary diapers and bandages are made of nylon, what will happen?



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10. Which type of blended fabric do you find more comfortable in winter? Why?



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11. The fabrics namely natural, synthetic and blended are available for garments. Which fabrics will you prefer to wear for rare occasions like functions and in routine? Why?



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12. Which fabrics do you prefer? Natural or synthetic? Why? Discuss comparatively.



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13. What is the different between washing of clothes at home and washing by dry cleaning?



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14. Certain fry pans are said to be non-stick.

What made them non stick?



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15. Firemen wear dress which does not catch fire. How is it possible?



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Improve Your Learning

1. Take hair, wool, silk, paper, cotton thread, piece of plastic, thread of sweater, piece of rope and carefully conduct a flame test. Based on smell and type of melting, classify them as natural or artificial fibres.



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2. How synthetic fibres changed our everyday life?



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3. Explain why some fibres are called synthetic?



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4. Prepare a table of various synthetic fibres which are used to make household articles from them?



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5. Nibha wants to buy clothes to parents for winter wear. What type of clothes would you suggest? Specify reasons.



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6. Give reasons why plastic containers are used as storage devices?



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7. Explain the differences between thermoplastics and thermosetting plastics with the help of a diagram explaining interms of arrangements of monomers.



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8. Classify following material which can be, cannot be recycled? Plastic toys, electrical swithces, plastic chairs, carry bags, tumblers,

tooth brush plastic chapels, plastic plates, plastic buckets.



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9. If electric swithes are made by thermoplastics what would happens?



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10. Thermoplastics are eco friendly then thermosetting plastics. What do you say Why?



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11. Prepare a chart which can explain recycling codes, full names and acronym of plastic and its usage for various household articles, recycled or not, if recycled what will be made from that ?



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12. If plastic is not properly disposed, what could be the consequences?



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13. Explain following. (AS_1)

a) Blending b) Biodegradable c) Recycling d)
Decomposition



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14. Introduction of synthetic fibres in the textile industry brought revolutionary change across the world in the dressing patterns irrespective of culture and customs. How do you appreciate this ?



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15. Indiscriminate usage of plastic is a serious threat to bio-diversity, What are the efforts of

Government and Non-Government organizations in this regard?



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16. Where do we use the process of recycling?
How is it useful? Give examples.



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Improve Your Learning Match The Following

1. Match the following. (AS_1)

- | | |
|---------------|-----------------------------|
| i) Polyester | (a) kitchenware |
| ii) PET | (b) artificial silk |
| iii) Rayon | (c) many monomers |
| iv) Nylon | (d) electric switches |
| v) Melamine | (f) Code 1 |
| vi) Polythene | (g) popular dress material |
| vii) Bakelite | (h) stronger than any fiber |



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Improve Your Learning Fill In The Blanks

1. Fill in the blanks.

Synthetic fibres are also called as.....fibres.



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2. Fill in the blanks.

Synthetic fibres are also called as.....fibres.



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3. Fill in the blanks.

Like synthetic fibre, plastic also.....



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4. Fill in the blanks.

Clothing lables are.....

- A. Required by law
- B. Identify fabric content
- C. Both a and b

D. None of the above

Answer:



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5. Fill in the blanks.

Rayon is made of.....

A. Coal

B. Oxygen

C. Flaxd

D. Cellulose

Answer:



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6. Fill in the blanks.

A silk fibre's smooth absorbs light.....



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